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I -2 **COMPARATIV**
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I -3 **GENOTOXICIT**
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I -4 **GENOTOXICIT**
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I -5 **STUDY OF TH**
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I -6 **INDUCED MU**
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Institut Curie-Bi

I -7 **ANTIMUTAG**
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[1]&[2] MIENTJE
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I. MOLECULAR ANALYSIS OF MUTAGENESIS

I -1 DIRECT AND INDIRECT MECHANISMS IN CADMIUM GENOTOXICITY
HARTWIG, A., OETKEN, G., BEYERSMANN, D.
Department of Biology and Chemistry, University of Bremen, GERMANY

I -2 COMPARATIVE ANALYSIS OF 4-NITROQUINOLINE-1-OXIDE INDUCED MUTATIONS AT THE *hprt* LOCUS IN MAMMALIAN CELLS: POSSIBLE INFLUENCE OF PREFERENTIAL DNA REPAIR PROCESSES
[1] INGA, A, [1] IANNONE, R., [1] DEGAN, P., [1] CAMPOMENOSI, P., [1] FRONZA, G., [1] MENICHINI, P. and [1&2] ABBONDANDOLO, A.
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I -3 GENOTOXICITY TESTING IN *Escherichia coli*: I. ISOLATION OF A TESTER STRAIN
KRANENDONK, M., RUAS, M., LAIRES, A. and RUEFF, J.
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I -4 GENOTOXICITY TESTING IN *Escherichia coli*: II. VALIDATION OF A TESTER STRAIN
KRANENDONK, M., RUAS, M., LAIRES, A. and RUEFF, J.
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I -5 STUDY OF THE RESPONSES AND CHARACTERIZATION OF THE MUTATIONS INDUCED BY 2-AMINO-1-METHYL-6-PHENYLIMIDAZO[4,5] PYRIDINE (PhIP) IN HUMAN LYMPHOBLASTOID CELLS
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Centre de Recherche Nestlé, Lausanne, SWITZERLAND

I -6 INDUCED MUTAGENESIS ON A SINGLE-STRANDED PLASMID TREATED WITH 8-METHOXYPSORALEN PLUS UVA AFTER TRANSFORMATION IN *Saccharomyces cerevisiae*
MEIRA, L. and MAGAÑA-SCHWENCKE, N.
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I -7 ANTIMUTAGENIC PROPERTIES OF DIETARY FIBRE ON FOOD MUTAGENS
MIENDJE DEYI, V. Y. and DE MEESTER, C.
Université Catholique de Louvain, Ecole de Pharmacie, Unité de Tératogenèse, Bruxelles, BELGIUM

I -8 AN IMPROVED SELECTION METHOD FOR λ*lacZ*⁻ PHAGES BASED ON GALACTOSE SENSITIVITY
[1&2] MIENTJES, E. J., [1] VAN DELFT, J. H. M., [1] HOF, B. M., [3&4] GOSSEN, J. A., [3&4] VIJG, J., [2] LOHMAN, P. H. M. and [1] BAAN, R. A.
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I -9 MUTAGENESIS IN FANCONI ANEMIA. 1. *In vivo* DETERMINATION OF *HRPT* MUTANT AND GPA VARIANT FREQUENCIES. 2. MOLECULAR ANALYSIS OF *HPRT*

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[1] MOUSTACCHI, E., [1] SALA-TREPAT, M., [1] GUILLOUF, C., [1] LAQUERBE, A., [2] BOYSE, J., [3] RICHARD, P. and [1] PAPADOPOULO, D.
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I -10 EFFECTS OF DNA TRANSCRIPTION ON UV-INDUCED MUTAGENESIS IN HUMAN CELLS 2
[1] PALOMBO, F., [1] CALCAGNILE, A., [1&2] BASIC-ZANINOVIC, T., [1] D'ERRICO, M., [3] MESCHINI, R. and [1] DOGLIOTTI, E.
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I -11 SN2 ALKYLATING AGENTS INACTIVATE O^6 METHYLGUANINE-DNA METHYLTRANSFERASE IN VIVO
SLEDZIEWSKA-GOJSKA, E.
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I -12 MOLECULAR SPECTRUM OF ENU IN SPERMATOGONIAL STEM CELLS OF *Drosophila melanogaster*
TOSAL, L., COMENDADOR, M. A. and SIERRA, L. M.
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I -13 DNA ADDUCT FORMATION BY 7-METHOXY-2-NITRO-NAPHTHO(2,1-b) FURAN (R7000), AN EXTREMELY POTENT MUTAGEN
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I -14 THE INFLUENCE OF ORGANOPHOSPHORUS COMPOUNDS ON THE DNA AND CHROMATIN FROM LYMPHOCYTES
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Dpto. de Genética, Fac. Ciencias, Univ. Córdoba, SPAIN

II -2 MUTAGENESIS AND DNA-REPAIR OF DAMAGES INDUCED BY DIHALOALKANES IN *E. coli*
ABRIL, N., LUQUE-ROMERO, F. L., PRIETO-ALAMO, M. J. and PUEYO, C.
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II -3 DNA DAMAGE AND REPAIR IN NORMAL AND NEOPLASTIC CELLS TREATED WITH ADRIAMYCIN *in vitro*
ANUSZEWSKA, E. L. and GRUBER, B.
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II -4 ACROLEIN G
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Departament d
SPAIN

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Centro Genetic

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DOYLE, N.
University of
Liverpool, U.

II -10 A FURTHE
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[1] Dpt. de Ge
[2] Division of

II -11 ANALYSIS
GEL ELEC
[1] FORTINI,
[1] Laborator
Ultrastructur

II -12 REPAIR O
[1] FROSINA
[2] DOGLIOT
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[1]LAQUERBE, A., [2] BOYSE,

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1UTAGENESIS IN HUMAN

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METHYLGUANINE-DNA

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I. J. and PUEYO, C.

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II -4 ACROLEIN GENOTOXICITY IN *Drosophila melanogaster*
BARROS, A. R., APESTEGUIA, A., COMENDADOR, M. A. and SIERRA, L. M.
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II -5 AN *in vitro* ASSAY FOR DAMAGE-DEPENDENT DNA INCISION BY NUCLEOTIDE EXCISION REPAIR IN HUMAN CELL EXTRACTS
CALSOU, P. and SALLES, B.
Laboratoire de Pharmacologie et Toxicologie Fondamentale CNRS, Toulouse, FRANCE

II -6 MUTAGENESIS INDUCED BY CIPROFLOXACIN AND UV LIGHT IN *recA(def)* AND *lexA(def)* MUTANTS OF *Salmonella typhimurium*
CLERCH, B., GARRIGA, X., BARBE, J. and LLAGOSTERA, M.
Departament de Genètica i de Microbiologia, Facultat de Ciències, Bellaterra (Barcelona), SPAIN

II -7 GENOTOXICITY OF B-LAPACHONE, A RADIOSENSITIZING AGENT: I. INDUCTION OF DNA SINGLE AND DOUBLE STRAND BREAKS
CUNDARI, E., DEGRASSI, F., DE SALVIA, R., FIORE, M., RICORDY, R., VANNI, A.
Centro Genetica Evoluzionistica C.N.R., Roma, ITALY

II -8 GENOTOXICITY OF B-LAPACHONE, A RADIOSENSITIZING AGENT: II. PHASE-SPECIFIC SELECTIVE CYTOTOXICITY AS DETERMINED BY FLOW-CYTOMETRY
CUNDARI, E., DEGRASSI, F., DE SALVIA, R., FIORE, M., RICORDY, R., VANNI, A.
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II -9 THE EFFECT OF DIFFERENT MUTAGENS UPON THE MUTAGENIC SPECTRA OF THE umuDC, impCAB, AND mucAB ERROR PRONE DNA REPAIR GENES
DOYLE, N. and STRIKE, P.
University of Liverpool, Department of Genetics and Microbiology, Donnan Laboratories, Liverpool, U. K.

II -10 A FURTHER ANALYSIS OF THE ORIGIN OF MICRONUCLEI AND IMPROVED SENSITIVITY IN THE CYTOKINESIS-BLOK MICRONUCLEUS ASSAY WHEN COMBINED WITH DNA REPAIR INHIBITORS
[2] FENECH, M., [2] RINALDI, J. and [1] SURRALLES, J.
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II -11 ANALYSIS OF DNA ALKYLATION DAMAGE AND ITS REPAIR BY SINGLE-CELL GEL ELECTROPHORESIS
[1] FORTINI, P., [1] RASPAGLIO, G., [2] FALCHI, M. and [2] DOGLIOTTI, E.
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II -12 REPAIR OF ABASIC SITES BY MAMMALIAN CELL EXTRACTS
[1] FROSINA, G., [2] FORTINI, P., [1] ROSSI, O., [1] RIVANO, M. E., [2] CALCAGNILE, A. and [2] DOGLIOTTI, E.
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II -13 INFLUENCE OF RAD GENES ON MUTAGENESIS AND ERROR PRONE REPAIR INDUCED BY EMS IN YEAST.
GALLI, A., DELLA CROCE, R., DEL CARRATORE, R., BRONZETTI, G.
Istituto di Mutagenesi e Differenziamento, CNR, Pisa, ITALY

II -14 CAMPTOTHECIN-INDUCED DNA DAMAGE IN TWO MURINE LYMPHOMA L5178Y SUBLINES DIFFERENTIALLY SENSITIVE TO THE DRUG
GRADZKA, I. and SZUMIEL, I.
Institute of Nuclear Chemistry and Technology, Warsaw, POLAND

II -15 RELATIONSHIP OF NOECARZINOSTATIN-INDUCED CHROMOSOME ABERRATIONS AND HPRT MUTATIONS IN THE ATAXIA-TELANGIECTASIA LIKE CHINESE HAMSTER CELL LINE VE-5
HELBIG, R., GERLAND, E. and SPEIT, G.
Abteilung Klinische Genetik, Universität Ulm, GERMANY

II -16 DNA EXCISION-REPAIR ACTIVITY IN *Schizosaccharomyces pombe* IS UV-INDUCIBLE
JAEG, J. P., BOUAYADI, K., CALSOU, P. and SALLES, B.
Laboratoire de Pharmacologie et Toxicologie Fondamentales CNRS, Toulouse, FRANCE

II -17 EFFECT OF OVEREXPRESSION OF N-METHYLPURINE-DNA GLYCOSYLASE ON GENOTOXICITY OF ALKYLATING AGENTS IN CHINESE HAMSTER OVARY CELLS
[1] KAINA, B., [1] COQUERELLE, T., [2] IBEANU, G. and [2&3] MITRA, S.
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II -18 THE ABSENCE OF THE REPAIR OF DNA BREAKS INDUCED BY METHYL METHANESULFONATE AND 4-NITROQUINOLINE OXIDE IN CHO-UV-5 MUTANT
KOVAROVA, E. and STETINA, R.
Institute of Experimental Medicine, Academy of Sciences, Prague, CZECH REPUBLIC

II -19 THE MUTAGENIC AND SOS INDUCING PROPERTIES OF ANTIBIOTIC QUINOLONES?
MERSCH-SUNDERMANN, V., HAUFF, K. H., BRAUN, P. and HOF, H.
Department of Medical Microbiology and Hygiene, Faculty of Clinical Medicine Mannheim, University of Heidelberg, Mannheim 1, GERMANY

II -20 DETERMINATION OF O6-ETHYLGUANINE IN GENOMIC AND lacZ DNA IN ETHYLNITROSOUREA TREATED lacZ TRANSGENIC MICE
[1&2] MIENTJES, E. J., [3] HOCHLEITNER, K., [1] VAN DELFT, J. H. M. [3] THOMALE, J., RAJEWSKY, M. F., [2] LOHMAN, P. H. M. and [1] BAAN, R. A.
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II -21 THE SIGNIFICANCE OF ADENINE PHOSPHORIBOSYLTRANSFERASE FOR DNA EXCISION REPAIR IN FRIEND ERYTHROLEUKAEMIA CELLS
NELSON, A. A., WILKINSON, Y. A. and McKENNA, P. G.

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II -22 RESPONSES OI
EPOXYBUTENE
LEURATTI, C., [illegible]
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II -23 BaPDE-DNA AD
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LEVIS, A. G.
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II -24 DNA REPAIR
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[1] PUEYO, M., [1] B
[2] RUIZ, J. I., [2] PE
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SPAIN, [2] Servei d

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[1] REED, S., [2] BO
[1] School of Biolo
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[1] STETINA, R., [1]
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Ireland, U. K.

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[1] ZDZIENICKA, M
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HINESE HAMSTER OVARY

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lsruhe, GERMANY [2] Oak Ridge
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IDE IN CHO-UV-5 MUTANT

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FT, J. H. M. [3] THOMALE, J.,
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YLTRANSFERASE FOR DNA
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II -22 **RESPONSES OF CHINESE HAMSTER DNA REPAIR MUTANTS EXPOSED TO EPOXYBUTENE OR DIEPOXYBUTANE**
LEURATTI, C., ELLARD, S., PARRY, E. M., WATERS, R. and JONES, N. J.
School of Biological Sciences, University College of Swansea, Singleton Park, Swansea, U. K.

II -23 **BaPDE-DNA ADDUCT FORMATION AND REMOVAL IN CULTURED HUMAN EPIDERMAL KERATINOCYTES**
[1] PAVANELLO, S., [1] NAVAZIO, L. L., [2] CONCONI, M. T., [2] PARNIGOTTO, P. P. and [1] LEVIS, A. G.
[1] Dept. of Biology, Univ. of Padova, [2] Dept. of Pharmaceutical Science, Univ. of Padova, ITALY

II -24 **DNA REPAIR AND MUTAGENICITY TESTS IN THE PRESCREENING OF PLATINUM-DERIVATED ANTITUMORAL AGENTS**
[1] PUEYO, M., [1] BRAVO, J. M., [2] BONAL, J., [2] SAMPEDRO, F., [2] MOLINS-PUJOL, A. M., [2] RUIZ, J. I., [2] PEREZ, D. G. and [1] LLAGOSTERA, M.
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II -25 **THE REPAIR OF IONISING RADIATION INDUCED DNA DAMAGE IN TRANSCRIPTIONALLY ACTIVE OR INACTIVE DNA SEQUENCES**
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[1] School of Biological Sciences, University College of Swansea, Singleton Park, Swansea, U. K. [2] Institut Gustav-Roussy, Villejuif, FRANCE

II -26 **THE INDUCTION OF DNA DAMAGE IN HUMAN FIBROBLASTS BY METHYL METHANESULFONATE CAN BE SUPRESSED BY *Ginkgo biloba* EXTRACT**
[1] STETINA, R., [1] SRAM, R. J. and [2] DROY-LEFAIX, T.
[1] Institute of Experimental Medicine, Academy of Sciences, Prague, CZECH REPUBLIC, [2] IPSEN, FRANCE

II -27 **A COMPARISON OF BLEOMYCIN INDUCED DNA DAMAGE AND REPAIR IN WILD-TYPE AND THYMIDINE KINASE DEFICIENT FRIEND ERYTHROLEUKAEMIA CELLS**
SWEETMAN, S. F., McKELVEY-MARTIN, V. J. and McKENNA, P. G.
Department of Biological and Biomedical Sciences, University of Ulster, Coleraine, Northern Ireland, U. K.

II -28 **THE RELATION BETWEEN RADIOSENSITIVITY AND INHIBITION OF DNA SYNTHESIS AFTER γ IRRADIATION IN DIFFERENT IONIZING RADIATION-SENSITIVE MAMMALIAN CELLS**
[1] ZDZIENICKA, M.Z., [1] VERHAEGH, G.W.C.T., JONGMANS, W., [1] JASPERS, N.G.J. and [2] LOHMAN, P.H.M.
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IV. SOMATIC MUTATION AND RECOMBINATION

IV -1 THE w/w$^+$ SMART AS AN USEFUL TOOL FOR THE EVALUATION OF PESTICIDES
AGUIRREZABALAGA, I., SANTAMARIA, I. and COMENDADOR, M. A.
Dpto. Biología Funcional, Area de Genética, Universidad de Oviedo, SPAIN

IV -2 USE OF THE *white-ivory* SMAR ASSAY FOR THE DETECTION OF INTRACHROMOSOMAL RECOMBINOGENIC CHEMICALS
FERREIRO, J. A., CONSUEGRA, S., SIERRA, L. M. and COMENDADOR, M. A.
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IV -3 MUTATION AND THE AGEING PROCESS
KING, C. M., WILKINSON, Y. A. and McKENNA, P. G.
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IV -4 GENOTOXICITY OF THREE PESTICIDES IN THE WING SMART IN *Drosophila melanogaster*
[1] OSABA, L., [1] AGUIRRE, A. and [2] ALONSO, A.
[1] Dto. Biología Animal y Genética, Fac. Ciencias, Bilbao, SPAIN [2] Dto. Genética ETSI Agrónomos, Universidad de Córdoba, Cordoba, SPAIN

IV -5 ELEVATED FREQUENCY OF RECOMBINATION REVEALED BY A SMART TEST IN *Drosophila melanogaster* TREATED WITH INHIBITORS OF TOPOISOMERASE II
RAHDEN-STARON, I. and WUDARCZYK, J.
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IV -6 GENETIC AND CYTOLOGICAL EVIDENCE FOR THE INDUCTION OF SOMATIC RECOMBINATION BY CHLORAL HYDRATE IN *Drosophila melanogaster*
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Department of Biology, University of Padova, ITALY

V. NEW TRENDS IN GENETIC TOXICOLOGY

V -1 THE DEVELOPMENT OF A BACTERIAL FLUCTUATION TEST TO ASSAY FOR PHOTOMUTAGENICITY
ADAMS, K., JONES, E., KITCHING, J.
Huntingdon Research Centre, Huntingdon, Cambridgeshire, U.K.

V -2 AROMATIC AMINES, NITROARENES AND *Salmonella typhimurium* MUTAGENICITY: THE MOLECULAR DETERMINANTS OF THE ACTIVITY ARE DIFFERENT FROM THOSE THAT MODULATE THE EXENT OF THE ACTIVITY
[1] BENIGNI, R., [1] ANDREOLI, C. and [2] GIULIANI, A.
[1] Istituto Superiore di Sanità, Roma, [2] Institute for Research on Senescence, Pomezia, ITALY

V -3 THE USE OF LUMINISCENT BACTERIAL TO MEASURE GENOTOXICITY OF ENVIRONMENTAL SAMPLES
[1] BULICH, A.A. and [2] DE BELLERIN, A.
[1] V. P. Science and Tecnology, Microbic Co. U.S.A., [2] Instrumentación Analítica, S.A., El Prat de Llobregat, Barcelona, SPAIN

V -4 DETERMINATION
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GOMEZ, D., [4] RIB
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V -5 DEVELOPMENT
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[1] U. S. EPA, Resear

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V -12 MEASUREMENT O
[1] KUCHENMEISTE
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